

## Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

## **Listing of Claims:**

Claims 1-24 (Canceled).

- 25. (Currently amended) A lower electrode of a capacitor, comprising:
- a first layer in the form of a plate comprising a material that serves as a barrier against the diffusion of impurities from a lower substrate;
- a second layer formed over the first layer, the second layer comprising a material that is easy to pattern; and
- a third layer formed over top and side surfaces of the second layer and side surfaces of the first layer, the third layer comprising a material having low leakage current properties;

wherein the lower substrate exposed by third layer is overetched to form a step in an upper surface of the lower substrate.

- 26. (Original) A lower electrode of a capacitor according to claim 25, wherein the first layer comprises TiN.
- 27. (Original) A lower electrode of a capacitor according to claim 25, wherein the second layer comprises RuO<sub>2</sub>.
- 28. (Original) A lower electrode of a capacitor according to claim 26, wherein the third layer comprises Pt.
  - 29. (Canceled)
  - 30. (Currently amended) A semiconductor device, comprising: an insulating film formed over a semiconductor substrate; a conductive plug formed in the insulating film;

a first layer formed over the conductive plug and the insulating film, the first layer comprising a material that serves as a barrier against the diffusion of impurities from the conductive plug and the semiconductor substrate;

a second layer formed over the first layer, the second layer comprising a material that is easy to pattern; and

a third layer formed over top and side surfaces of the second layer and side surfaces of the first layer, the third layer comprising a material having low leakage current properties;

wherein the insulating film exposed by the third layer is over etched to form a step in an upper surface of the lower substrate.

- 31. (Previously presented) A semiconductor device according to claim 30, wherein the first layer comprises TiN.
- 32. (Previously presented) A semiconductor device according to claim 30, wherein the second layer comprises RuO<sub>2</sub>.
- 33. (Previously presented) A semiconductor device according to claim 30, wherein the third layer comprises Pt.
- 34. (Previously presented) A semiconductor device according to claim 30, wherein the conductive plug comprises polysilicon.
  - 35. (Canceled)
- 36. (Previously presented) A capacitor adapted for use in a semiconductor device, comprising:
- a first layer in the form of a plate comprising a material that serves as a barrier against the diffusion of impurities from a lower substrate;
- a second layer disposed on a top surface of the first layer, such that side surfaces of the first layer remain exposed, the second layer comprising a material that is easy to pattern; and

a third layer disposed on top and side surfaces of the second layer and on the exposed side surfaces of the first layer, the third layer comprising a material having low leakage current properties.

- 37. (Previously presented) The capacitor of claim 36, wherein the lower substrate exposed by the third layer is overetched.
- 38. (Previously presented) The capacitor of claim 36, wherein the first layer comprises TiN.
- 39. (Previously presented) The capacitor of claim 36, wherein the second layer comprises RuO<sub>2</sub>.
- 40. (Previously presented) The capacitor of claim 36, wherein the third layer comprises Pt.
  - 41. (Previously presented) A semiconductor device, comprising: an insulating film disposed on a semiconductor substrate;
  - a conductive plug disposed in the insulating film;
- a first layer disposed on the conductive plug and the insulating film, the first layer comprising a material that serves as a barrier against the diffusion of impurities from the conductive plug and the semiconductor substrate;

a second layer disposed on a top surface of the first layer, such that side surfaces of the first layer remain exposed, the second layer comprising a material that is easy to pattern; and

a third layer disposed on top and side surfaces of the second layer and on the exposed side surfaces of the first layer, the third layer comprising a material having low leakage current properties.

- 42. (Previously presented) The capacitor of claim 41, wherein the insulating film exposed by the third layer is overetched.
- 43. (Previously presented) The capacitor of claim 41, wherein the first layer comprises TiN.

- 44. (Previously presented) The capacitor of claim 41, wherein the second layer comprises  $RuO_2$ .
- 45. (Previously presented) The capacitor of claim 41, wherein the third layer comprises Pt.